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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,374	08/06/2003	Charles E. Neff	223256	1291
23460	7590 03/11/2005		EXAMINER	
LEYDIG VOIT & MAYER, LTD			MCDONALD, SHANTESE L	
	ENTIAL PLAZA, SUITE STETSON AVENUE	: 4900	ART UNIT	PAPER NUMBER
CHICAGO, IL 60601-6780			3723	

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)	/1				
		10/635,374	NEFF, CHARLES	NEFF, CHARLES E.				
		Examiner	Art Unit					
		Shantese L. McDonald	3723					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SH THE - Ext afte - If th - If N - Fail Any ear	HORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re within the statutory minimum of thirty will apply and will expire SIX (6) MON' cause the application to become AB.	eply be timely filed (30) days will be considered timel THS from the mailing date of this c ANDONED (35 U.S.C. § 133).					
Status								
1)[
2a)[This action is FINAL . 2b)⊠ This action is non-final.							
3)∐	• •	•	•	e merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.					
Disposit	tion of Claims							
5) <u></u> 6)	Claim(s) <u>1-38</u> is/are pending in the application. 4a) Of the above claim(s) <u>23-34</u> is/are withdraw Claim(s) <u>15-19</u> is/are allowed. Claim(s) <u>1-14,20-22 and 35</u> is/are rejected. Claim(s) <u>36-38</u> is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.						
Applicat	tion Papers							
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to be drawing(s) be held in abeyand ion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CF	• •				
Priority	under 35 U.S.C. § 119							
12)[a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Apity documents have been (PCT Rule 17.2(a)).	oplication No received in this National	Stage				
Attachmer	• •							
2) 🔲 Noti 3) 🔯 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 10/20/03.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTC 	O-152)				

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1-22 and 35-38 in the reply filed on 2/14/05 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 20 and 35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 20 and 35 seem to be method claim which depend from apparatus claims. This is improper.

Claim 21 and 21 recites the limitation "at each axially spaced end portion thereof" in lines 2, and "said annular surfaces", in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 and 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Edgar.

Edgar teaches an abrasive tool, E, comprising a cylindrical base, 15, having a base surface and a working direction defining a direction for relative motion of the operative face of the workpiece and the working surface of the base, a first elongated ramp aligned with the base surface and rising in the working direction defining a ramp surface as a continuum progressively to a ramp top surface uniformly spaced from the base surface and abrasive particles on and extending upwardly from the ramp surface the particles defining ramp and top working surfaces, and being arranged in a plurality of or generally parallel groove cutting patterns, (col. 2, lines 7-8). Edgar also teaches that the abrasive particles on the ramp top are displaced from the abrasive particles on the base surface by the depth of the elongated groove, (fig. 1), and the abrasive particles are formed into a plurality of abrasive elements, c,d,e.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6,7,13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edgar in view of Takada et al.

Edgar teaches all the limitations of the claims except for the abrasive tool being adapted for use with a driving belt workpiece with multiple parallel grooves, wherein the base includes a plurality of ramps, each corresponding to one of the grooves. Takada et al. teaches an abrasive tool being adapted for use with a driving belt workpiece with multiple parallel grooves, wherein the base includes a plurality of ramps, each corresponding to one of the grooves, (fig. 1 and 2). It would have been obvious to one having ordinary skill in the art at the time the invention was made, to use the abrasive tool of Edgar, to form grooves in a belt, as taught by Takada et al, in order to vary the workpiece, since the abrasive article of Edgar is utilized to form grooves in workpieces.

Allowable Subject Matter

Claim 38 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 36 and 37 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 15-19 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hollis et al. and Bonazzi were cited to show other examples of abrasive tools.

Art Unit: 3723

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese L. McDonald whose telephone number is (703) 308-8722. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (703) 308-2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.L.M. March 1, 2005

Joseph J. Hail, III Supervisory Patent Examiner Technology Center 3700

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